

What Is Claimed Is:

1 1. A fan housing mounted on a frame of a system,
2 comprising:

3 a main body;

4 a first section disposed on the main body;

5 a second section disposed on the main body, wherein a gap
6 is formed between the first and second sections; and

7 a fixing portion formed in the gap.

1 2. The fan housing as claimed in claim 1, further
2 comprising a fastening structure partially disposed in the gap,
3 wherein the fixing portion prevents the fastening structure from
4 rotating and limits the position of the fastening structure.

1 3. The fan housing as claimed in claim 2, wherein the
2 first section has a through hole and the fastening structure
3 includes a screw and a nut disposed in the gap, the nut is in
4 aligned with the through hole by the fixing portion, the screw
5 passes through the through hole and engages with the nut, and
6 the first and second sections prevent the nut from moving along
7 an axial direction of the screw.

1 4. The fan housing as claimed in claim 3, wherein the
2 second section has a recess aligned with the through hole of the
3 first section, and the screw is further accommodated by the
4 recess.

1 5. The fan housing as claimed in claim 2, wherein the
2 fastening structure has a profile corresponding to that of the
3 fixing portion.

1 6. The fan housing as claimed in claim 2, wherein the main
2 body is rectangular, and the first and second sections, the
3 fixing portion and the fastening structure are disposed at
4 corners of the main body.

1 7. The fan housing as claimed in claim 2, wherein the
2 fastening structure comprises a hook connected to the gap for
3 mounting the fan housing on the frame in the system.

1 8. The fan housing as claimed in claim 7, wherein the
2 first section has a through hole, and the hook passes through
3 the through hole and is connected to the gap.

1 9. The fan housing as claimed in claim 1, wherein the main
2 body, the first and second sections and the fixing portion are
3 an integral structure formed by injection molding.

1 10. The fan housing as claimed in claim 1, further
2 comprising a base at a bottom of the main body, wherein a
3 plurality of ribs or stator blades are disposed between the base
4 and the main body for guiding an air flow.

1 11. The fan housing as claimed in claim 10, wherein the
2 stator blades have the same inclined angle.

1 12. A fan assembly, comprising:
2 a rotor; and
3 a fan housing having a base to receive the rotor, the fan
4 housing comprising:
5 a main body;
6 a first section disposed on the main body;

7 a second section disposed on the main body, wherein
8 a gap is formed between the first and second
9 sections; and
10 a fixing portion formed in the gap.

11 13. The fan assembly as claimed in claim 12, further
12 comprising a fastening structure partially disposed in the gap,
13 wherein the fixing portion prevents the fastening structure from
14 rotating and limits the position of the fastening structure.

1 14. The fan assembly as claimed in claim 13, wherein the
2 first section has a through hole and the fastening structure
3 includes a screw and a nut disposed in the gap, the nut is in
4 aligned with the through hole by the fixing portion, the screw
5 passes through the through hole and engages with the nut, the
6 first and second sections prevent the nut from moving along an
7 axial direction of the screw.

1 15. The fan assembly as claimed in claim 14, wherein the
2 second section has a recess aligned with the through hole of the
3 first section, and the screw is further accommodated by the
4 recess.

1 16. The fan assembly as claimed in claim 13, wherein the
2 fastening structure has a profile corresponding to that of the
3 fixing portion.

1 17. The fan assembly as claimed in claim 13, wherein the
2 main body is rectangular, and the first and second sections, the
3 fixing portion and the fastening structure are disposed at
4 corners of the main body.

1 18. The fan assembly as claimed in claim 13, wherein the
2 fastening structure comprises a hook connected to the gap for
3 mounting the fan housing on the frame in the system.

1 19. The fan assembly as claimed in claim 18, wherein the
2 first section has a through hole, and the hook passes through
3 the through hole and is connected to the gap.

1 20. The fan assembly as claimed in claim 12, wherein the
2 main body, the first and second sections and the fixing portion
3 are an integral structure formed by injection molding.

1 21. The fan assembly as claimed in claim 12, wherein the
2 base at a bottom of the main body supports the rotor, a plurality
3 of ribs or stator blades are disposed between the base and the
4 main body for guiding an air flow.

1 22. The fan housing as claimed in claim 21, wherein the
2 stator blades have the same inclined angle and shape similar to
3 those of rotor blades of the rotor.